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Patent Abstracts of Russia

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(54) SORBENT BASED ON ALUMINIUM OXIDE	
(57) Abstract: FIELD: medicine. SUBSTANCE: sorbent based on aluminium oxide is resistant to hydration and dissolving provides for use of matrix of aluminium oxide of definite porous structure which consists of not less than 50% of *kappa*-shaped phase and modification of its surface with carbon in amount of 3-12 mas. %. Sorbent features high sorptive properties in cleaning from organic substances. EFFECT: highly efficient in purification of aqueous solutions from organic impurities, bacterial cells. 3 tbl	
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PAR Result



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<p>95-253242/33 B07 C07 D16 J01 (D13 D15 J04) SORB= 92.12.14</p> <p>SORBI STOCK CO 92.12.14 92RU-008946 (95.01.20) B01J 20/08, 20/20</p> <p>New sorbent based on aluminium oxide for purificn. of aq. solns. - contains aluminium oxide matrix of not less than 50 per cent of kappa phase and has specific surface of 90-180 metres squared per g</p> <p>C95-115875</p> <p>Addnl. Data: BURYLIN S YU, RACHKOVSKAYA L N, FROLOVA I I</p>	<p>BC(5-A3B) D(3-H1Q, 4-B, 5-A3A) J(1-D1) . I</p> <p>catalyst carriers and enzyme carriers.</p> <p><u>ADVANTAGE</u></p> <p>Creates a porous, stable-to-hydration sorbent based on aluminium oxides for purificn. of aq. solns. from organic cpds. and bacterial cells.</p> <p><u>EXAMPLE</u></p> <p>Aluminium oxide contg. 80% of the kappa-like phase (the rest gamma and X-ray amorphous aluminium oxide), modified with 8% of carbon with a real density of 3.0 g/cm³ and specific surface of 150 m²/g. The vol. of pores with a radius of 100-1,000 angstrom was 0.03 cm³/g, with a radius of 1,000-10,000 angstrom was 0.08 cm³/g.</p> <p>Adsorption of the cells of staphylococci and enteric bacilli in experimental conditions was 72 and 70% respectively. Adsorption of vitamin B₁₂ in the given conditions was 41% from the initial concn. respectively. The content of Al₂O₃ in water after boiling of the sorbent was 70 µg/ml. (KKG)</p> <p>(3pp2302DwgNo.0/0)</p> <p>RU 2026734-C</p>
<p>92.12.14 92RU-008946 (95.01.20) B01J 20/08, 20/20</p> <p>New sorbent based on aluminium oxide for purificn. of aq. solns. - contains aluminium oxide matrix of not less than 50 per cent of kappa phase and has specific surface of 90-180 metres squared per g</p> <p>C95-115875</p> <p>Addnl. Data: BURYLIN S YU, RACHKOVSKAYA L N, FROLOVA I I</p>	<p>New sorbent based on aluminium oxide for the purificn. of aq. solns. from organic cpds. and bacterial cells contg. 3-12 wt. % of carbon is distinguished in that as a matrix it contains Al₂O₃ consisting of not less than by 50% of kappa-like phase, and has a specific surface of 90-180 m²/g, vol. of pores with a radius of 100-1,000 angstrom of 0.02-0.08 cm³/g and vol. of pores with a radius of 1,000-10,000 angstrom of 0.05-0.1 cm³/g.</p> <p><u>USE</u></p> <p>Used as a sorbent for medical, veterinary and food industry applications esp. for the purificn. of sewage waters and exhaust gases, in the chemical biotechnological industries as sorbents, catalysts, and</p>